

DODOTRONIC

MOMIMIC

Audio and ultrasonic analogic microphone



USER GUIDE

0.1.0

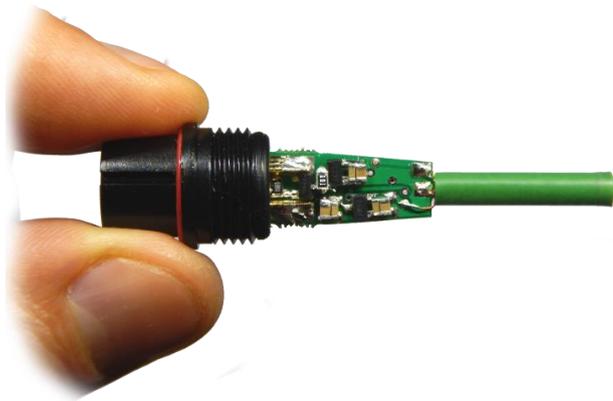
OVERVIEW

The Momimic is a high quality, professional audio and ultrasonic microphone.

Only 2 mA @5 Volts of power are required when operating.

Momimic can be completely turned off by pulling the pin 4 to V input (usually 5V).

Amplification



The circuit

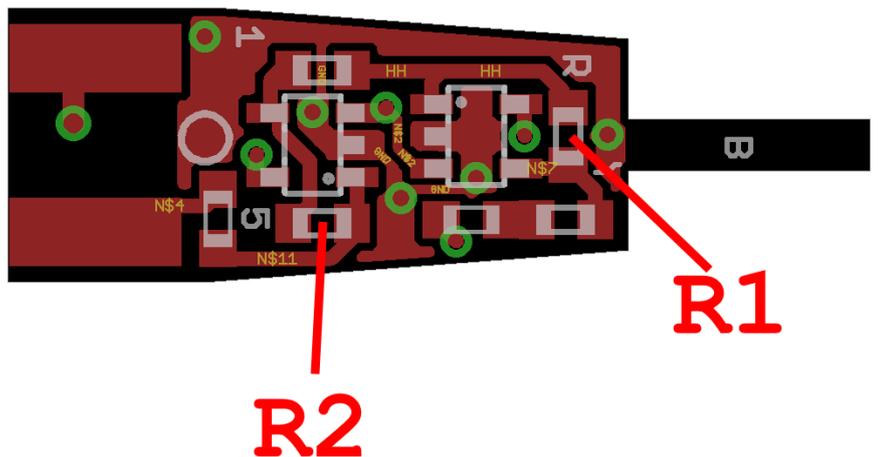
Momimic is composed by two linear low dropout voltage regulators and a double low noise operational amplifier. The amplification is fixed and can be changed replacing one or two resistors.

The standard values are:

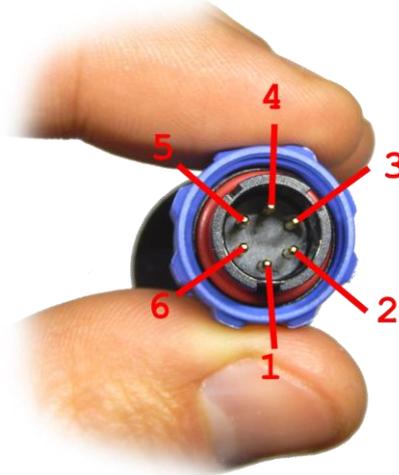
R1: 10Kohm

R2: 22Kohm

R1 regulate the preamplification while R2 the second amplification



Connector



The waterproof 6 pins connector has got the following pinout:

| PIN NUMBER | FUNCTION | NOTES |
|------------|----------|--|
| 1 | +5V | Input power supply |
| 2 | GROUND | Ground |
| 3 | NC | Not connected |
| 4 | Shutdown | Pulling this pin to ground turn on the microphone. Pulling down or floating put the device in shutdown mode. |
| 5 | IN+ | Positive differential output |
| 6 | IN- | Negative differential output (connected to ground) |

NOTE: The Momimic has no internal filter.



The metal head with the waterproof membrane

TECHNICAL SPECIFICATIONS

Microphone

The microphone sensor is an FG23629 from Knowles.
Inertial aluminium component to reduce sensor vibration.
The FG microphone is the world's smallest electret condenser microphone.
microphone is very sensitive, with a good signal/noise ratio and small form factor.
Waterproof GORE membrane GAW324

Technical assistance and support

Send request to:
info@dodotronic.com

Ultramic has been developed with the scientific support of CIBRA / University of Pavia.



Conformity declaration

For customers in Europe



CE mark indicates that this product complies with the European requirements for safety, health, environment and customer protection.



This symbol [crossed-out wheeled bin WEEE Annex IV] indicates separate collection of waste electrical and electronic equipment in the EU countries.

Please do not throw the equipment into the domestic refuse. Please use the return and collection systems available in your country for the disposal of this product.



This symbol [crossed-out wheeled bin Directive 2006/66/EC Annex II] indicates separate collection of waste batteries in the EU countries. Please do not throw the batteries into the domestic refuse. Please use the return and collection systems available in your country for the disposal of the waste batteries.

Momimic is in conformity with the protection and compliance requirements of the following EC Directives:

- 2004/108/CE
- 2006/95/CE

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